Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, Northeast				
(IN-Z003) LA PORTE, (IN-Z004) ST	LICEEDH			
(IN-2003) LA PORTE, (IN-2004) ST	11/12/13 00:00 CST		0	Lake-Effect Snow
	11/12/13 13:00 CST		0	Lake-Lifect Office
	111210 10.00 001		•	
(IN-Z003) LA PORTE, (IN-Z004) ST	. JOSEPH			
	11/12/13 00:00 EST		0	Lake-Effect Snow
	11/12/13 13:00 EST		0	
(IN-Z012) STARKE				
	11/12/13 00:00 EST		0	Winter Weather
	11/12/13 13:00 EST		0	
An intense lake effect snow band high as 9 inches were reported.	set up over northwest Indiana during the	morning hours of	i Nov 12th. Localiz	ed snowfall amounts as
LA PORTE COUNTY 1.5 SSE MI	ICHIGAN CITY ARPT [41.68, -86.81]			
	11/17/13 12:36 CST		0	Thunderstorm Wind (EG 52 kt)
	11/17/13 12:37 CST		0	Source: Trained Spotter
A trained spotter estimated wind gu	usts to 60 mph with trees and power lines do	own in the area.		
LA PORTE COUNTY 0.7 S MICH				
	11/17/13 13:37 CST		0	Thunderstorm Wind (EG 60 kt)
	11/17/13 13:38 CST		0	Source: Public
The public reported a two foot diam	neter tree was uprooted and fell onto a home	э.		
LA PORTE COUNTY 0.7 S WES	TVILLE [41.54, -86.90]			
	11/17/13 13:37 CST		0	Thunderstorm Wind (EG 55 kt)
	11/17/13 13:38 CST		0	Source: Public
The public reported a large tree fell	onto State Route 421.			
PULASKI COUNTY 0.4 SE MED	ARYVILLE [41.08, -86.89], 2.8 ENE DENHA	M [41.17, -86.67]		
	11/17/13 14:03 CST		0	Tornado (EF0, L: 13.18 mi , W: 100 yd)
	11/17/13 14:13 CST		0	Source: NWS Storm Survey
touched down just southwest of U.S trees being snapped at the base (D occasionally impacting groves of tre West. The tornado entered the town	laski county by emergency management an S. 421 and Delaware Street in Medaryville. Soll: TS DOD: 4). The tornado exited the town ees or center pivot irrigation systems. A barrin of Denham impacting a grain bin, which we crossing into Starke county. The maximum	Several large, hear and remained oven mas completely of as moved off its for	Ithy trees suffered or er mainly rural area destroyed (DI: SBC oundation and then	damage ranging from broken limbs to s moving across harvested fields and DOD: 8) on North County Road 1050 flattened. The tornado cause minor tree
LA PORTE COUNTY 1.3 NNE W	/ANATAH [41.45, -86.89]			
	11/17/13 14:18 CST		0	Thunderstorm Wind (EG 55 kt)
	11/17/13 14:19 CST		0	Source: Trained Spotter
A trained spotter reported a one foo	ot diameter branch blown down near the inte	ersection of County	y Road 1100 South	and US-421.
WHITE COUNTY 7.7 W BADGER	R GROVE [40.57, -87.10], 2.3 NNE BADGEI	R GROVE [40.61,	-86.93]	
	11/17/13 14:43 EST	- /	0	Tornado (EF2, L: 9.10 mi , W: 1200 yd)
	11/17/13 14:55 EST		0	Source: NWS Storm Survey

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Location Date/Time Deaths & Property & Event Type and Details Injuries Crop Dmg

A survey of damage by NWS officials indicated that a tornado touched down in eastern Benton county and continued northeast into White county. Exact determination of maximum intensity was difficult due to vastly open country and lack of trees and other objects. The tornado moved into southwestern White county south of County Road 1200 South, where the garage door of a west facing pole barn was pushed in and some minor tree limb damage was noted. The tornado continued rapidly northeast and impacted a residence on 900 West where the chimney (above the roof) was knocked down with shingle damage noted to the home. In addition, a large propane tank and camper were rolled or pushed roughly 150 feet away with the camper being destroyed. The tornado moved into open fields where it remained for roughly four miles, crossing Interstate 65 between mile markers 188 and 190. The tornado briefly strengthened after crossing the interstate, snapping 10 18-24 inch diameter power poles (DI: ETL DOD: 4) at the ground along County Road 500 West, either side of State Route 18. A home on the intersection of these roads suffered minor window and roof damage. Just east of the intersection, a pole barn was destroyed (DI: SBO DOD: 8) with debris thrown upwards of three-quarters of a mile. The tornado finally lifted west of County Road 300 West and north of State Route 18. The tornado was on the ground for a combined distance of 12 miles from eastern Benton county into White county. A maximum width of roughly 1200 yards was determined with maximum wind speeds around 120 mph.

WHITE COUNTY --- 2.0 SSW SMITHSON [40.69, -86.88], 5.3 W CHALMERS [40.67, -86.95]

11/17/13 14:51 EST 0 Tornado (EF0, L: 4.15 mi , W: 300 yd)

11/17/13 14:57 EST 0 Source: NWS Storm Survey

A NWS survey of damage revealed a tornado touched down in an open field 4 miles west of Chalmers, northwest of the intersection of County Road 600 South and 450 West. Tornado touched down in a field and moved northeast, crossing County Road 300 West, south of County Road 500 South where four 18 inch diameter power poles were snapped at the base (DI: ETL DOD: 4). The tornado then caused minor damage to siding and roofing at a home northeast of this location. A large pole barn in the same yard lost half of its roof, the barn next door to this residence was completely destroyed (DI: SBO DOD: 8) with debris from both locations being carried up to a mile to the northeast. Once final barn suffered minor roof damage before the tornado lifted two miles north of Chalmers east of County Road 75 West and south of County Road 350 S. Maximum wind speeds were estimated around 120 mph.

WHITE COUNTY --- 7.7 W BADGER GROVE [40.57, -87.10], 2.4 NNE BADGER GROVE [40.61, -86.93]

11/17/13 14:52 EST 0 Tornado (EF2, L: 9.23 mi , W: 900 yd)

11/17/13 15:01 EST 0 Source: NWS Storm Survey

A review of radar data and damage details near the southwestern White county tornado revealed a separate tornado occurred roughly 10 minutes behind the first tornado. The tornado touched down west of County Road 1100 West and north of the White/Tippecanoe county line where it impacted a farm, destroying two barns (one large and one small) with debris being thrown more than a half mile away from the location. In addition, several healthy pine trees lost branches with a few being snapped at the trunk and then launched or dragged several hundred feet to the east. The tornado moved northeast and impacted a residence on US 231, south of County Road 1200 South. The entire roof of a one story home (DI: FR12 DOD: 6) was removed and thrown northeast into a field. Two by four boards were driven into the field up to 250 yards away. The tornado eventually crossed Interstate 65 hitting yet another farm with extensive barn and shed damage on County Road 500 West, south of State Route 18. Power pole damage was noted in this area as well, but was not clear if this was from the prior tornado just to the north. Northeast of this location, it appears that the tornado quickly dissipated or became harder to detect based on the earlier damage. Maximum winds are estimated at 120 mph.

WHITE COUNTY --- 1.3 WSW CHALMERS [40.66, -86.87]

 11/17/13 14:55 EST
 0
 Thunderstorm Wind (EG 60 kt)

 11/17/13 15:00 EST
 0
 Source: Emergency Manager

Emergency management officials reported widespread wind damage across the southern part of the county, mainly from Brookston to Chalmers to the Cass county line.

WHITE COUNTY --- 0.5 W MONTICELLO [40.75, -86.76]

11/17/13 15:00 EST 0 Thunderstorm Wind (EG 60 kt)

11/17/13 15:01 EST 0 Source: Public

The public reported a tree was uprooted in Monticello.

WHITE COUNTY --- 3.7 NNW BURNETTSVILLE [40.82, -86.59], 3.3 NNE IDAVILLE [40.81, -86.61]

11/17/13 15:07 EST 0 Tornado (EF1, L: 0.81 mi , W: 150 yd)

11/17/13 15:08 EST 0 Source: NWS Storm Survey

A survey of damage in northeastern White county revealed damage consistent with a brief EF1 touchdown. The tornado touched down in an open field northeast of the intersection of County Road 400 North and 1350 East before flipping 4 sections of a center pivot irrigation system. As the tornado moved northeast a trailer was impacted removing the roof and taking down half of the walls (DI: MHSW DOD: 4). A woman was in the trailer home at the time it hit but made it to the bathroom as it was falling apart and survived with no injury. Debris from the trailer was thrown north and northwest into an adjacent field. The tornado continued northeast into a grove of trees where it continued less than 50 feet before lifting one quarter mile southwest of the intersection of County Roads 500 North and 1450 East. The maximum wind speed is estimated at 100 mph.

ST. JOSEPH COUNTY --- 0.7 N SOUTH BEND [41.68, -86.25]

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	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	11/17/13 15:10 EST	•	0	Thunderstorm Wind (EG 60 kt)
	11/17/13 15:11 EST		0	Source: Trained Spotter
A trained spotter reported a 16 inch tree	e down onto an car.			
ST. JOSEPH COUNTY 3.2 SSE SOU	JTH BEND [41.63, -86.22]			
	11/17/13 15:10 EST		0	Thunderstorm Wind (EG 60 kt)
	11/17/13 15:11 EST		0	Source: Trained Spotter
A trained spotter reported a tree was up	prooted and fell onto a house on the so	uth side of the 4-H	fairgrounds.	
ST. JOSEPH COUNTY 0.5 E (SBN)N	MICHIANA ARPT S [41.70, -86.31]			
	11/17/13 15:11 EST		0	Thunderstorm Wind (MG 59 kt)
	11/17/13 15:12 EST		0	Source: ASOS
A 68 mph wind gust was recorded by th	ne automated weather sensor at the So	uth Bend Regional	Airport.	
ST. JOSEPH COUNTY 0.7 N SOUTH	H BEND [41.68, -86.25]			
	11/17/13 15:11 EST		0	Thunderstorm Wind (MG 57 kt)
	11/17/13 15:12 EST		0	Source: Trained Spotter
A trained spotter measure a 66 mph wir	nd gust near the South Bend airport.			
CASS COUNTY 1.4 WSW YOUNG A	MERICA [40.56, -86.37], 0.5 NNE LINC	OLN [40.63, -86.2	-	
	11/17/13 15:17 EST		0	Tornado (EF3, L: 9.38 mi , W: 100 yd)
	11/17/13 15:27 EST		0	Source: NWS Storm Survey
county and crossed into Cass county ju mainly open fields until moving near a r property suffered a blown out wall. The County Road 300 East. A small barn wa	residence on County Road 150 East, so tornado continued northeast and cause as destroyed with debris thrown into an	oad 1400 South ar outh of 1250 South e minor shingle dar adjacent field. The	nd the Carroll/Cass where a home had mage to three home to tornado briefly int	county line. The tornado remained over d its chimney blown off and a barn on the es on County Road 1250, west of ensified as it entered a grove of trees
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county and crossed into Cass county jumainly open fields until moving near a reproperty suffered a blown out wall. The County Road 300 East. A small barn wannorth of County Road 1200 South and val. The tornado remained over mainly oppoles were broken (DI: ETL DOD: 4). The reached while in Cass county, with estimated with the county and the county and the county are selected.  ST. JOSEPH COUNTY 0.9 SE MISH.  A measured wind gust of 67 mph was restricted to the county and the county are county.  CASS COUNTY 0.8 NW LOGANSPO  A survey of damage in the Logansport of South. The tornado moved northeast are suffered complete loss of its roof from the wind being able to lift the roof of the hour wind being able to lift the roof of the hour was resuffered.	ast north of the intersection of County R residence on County Road 150 East, so tornado continued northeast and cause as destroyed with debris thrown into an west of 400 East where every tree for th open fields, occasionally causing minor he tornado quickly lifted a few miles so mated winds of 120 mph.  AWAKA [41.66, -86.16]  11/17/13 15:18 EST  11/17/13 15:19 EST  reported by the public.  CHAWAKA [41.64, -86.19]  11/17/13 15:20 EST  ted eight inch pine trees down on the e  DRT MUNI ARPT [40.73, -86.39], 1.4 N I 11/17/13 15:22 EST  area indicated that a EF0 tornado touch and did minor damage to the roof of a loc he tornado (DI: FR12 DOD: 4). Howeve use. Minor tree damage was found alor	ast side of Marion  LOGANSPORT MU  The down west of Leal warehouse before, impact occurred by the remainder of the total warehouse before, impact occurred by the remainder of t	d the Carroll/Cass where a home had mage to three home tornado briefly into s snapped five to tecrossing US 35 nor som Air Reserve B  0 0 0  High School.  JNI ARPT [40.74, -6] 0 0 cogansport Bypass ore crossing the byth on a sun room that	County line. The tornado remained over dists chimney blown off and a barn on the less on County Road 1250, west of tensified as it entered a grove of trees en feet above the base (DI: TH DOD: In the formation of County Road 1000 S where power case. A maximum intensity of EF2 was  Thunderstorm Wind (MG 58 kt)  Source: Public  Thunderstorm Wind (EG 60 kt)  Source: Emergency Manager  86.38]  Tornado (EF0, L: 1.13 mi , W: 150 yd)  Source: NWS Storm Survey  Road and north of County Road 250
county and crossed into Cass county jumainly open fields until moving near a reproperty suffered a blown out wall. The County Road 300 East. A small barn wannorth of County Road 1200 South and val). The tornado remained over mainly oppoles were broken (DI: ETL DOD: 4). The reached while in Cass county, with estimated with the county and the county and the county are selected.  ST. JOSEPH COUNTY 0.9 SE MISH.  A measured wind gust of 67 mph was restricted and the county and the county are county.  CASS COUNTY 0.8 NW LOGANSPO  A survey of damage in the Logansport and suffered complete loss of its roof from the wind being able to lift the roof of the hot of Lincoln and South Cicott Streets. The	ast north of the intersection of County R residence on County Road 150 East, so tornado continued northeast and cause as destroyed with debris thrown into an west of 400 East where every tree for the open fields, occasionally causing minor the tornado quickly lifted a few miles so mated winds of 120 mph.  AWAKA [41.66, -86.16]  11/17/13 15:18 EST  11/17/13 15:19 EST  reported by the public.  SHAWAKA [41.64, -86.19]  11/17/13 15:20 EST  ted eight inch pine trees down on the e  DRT MUNI ARPT [40.73, -86.39], 1.4 N 11/17/13 15:22 EST  area indicated that a EFO tornado touch and did minor damage to the roof of a lot the tornado (DI: FR12 DOD: 4). However use. Minor tree damage was found alor te maximum wind speed was estimated	ast side of Marion  LOGANSPORT MU  The down west of Leal warehouse before, impact occurred by the remainder of the total warehouse before, impact occurred by the remainder of t	d the Carroll/Cass where a home had mage to three home tornado briefly into s snapped five to tecrossing US 35 nor som Air Reserve B  0 0 0  High School.  JNI ARPT [40.74, -6] 0 0 cogansport Bypass ore crossing the byth on a sun room that	County line. The tornado remained over dists chimney blown off and a barn on the less on County Road 1250, west of tensified as it entered a grove of trees en feet above the base (DI: TH DOD: 17th of County Road 1000 S where power Base. A maximum intensity of EF2 was  Thunderstorm Wind (MG 58 kt)  Source: Public  Thunderstorm Wind (EG 60 kt)  Source: Emergency Manager  86.38]  Tornado (EF0, L: 1.13 mi , W: 150 yd)  Source: NWS Storm Survey  Road and north of County Road 250 pass. A home on West Clinton Street at had structural issues and aided in the
county and crossed into Cass county jumainly open fields until moving near a reproperty suffered a blown out wall. The County Road 300 East. A small barn water or the County Road 300 East. A small barn water or the County Road 1200 South and val. The tornado remained over mainly cooles were broken (DI: ETL DOD: 4). The teached while in Cass county, with estimate the county of t	ast north of the intersection of County R residence on County Road 150 East, so tornado continued northeast and cause as destroyed with debris thrown into an west of 400 East where every tree for the open fields, occasionally causing minor the tornado quickly lifted a few miles so mated winds of 120 mph.  AWAKA [41.66, -86.16]  11/17/13 15:18 EST  11/17/13 15:19 EST  reported by the public.  SHAWAKA [41.64, -86.19]  11/17/13 15:20 EST  ted eight inch pine trees down on the e  DRT MUNI ARPT [40.73, -86.39], 1.4 N 11/17/13 15:22 EST  area indicated that a EFO tornado touch and did minor damage to the roof of a lot the tornado (DI: FR12 DOD: 4). However use. Minor tree damage was found alor te maximum wind speed was estimated	ast side of Marion  LOGANSPORT MU  The down west of Leal warehouse before, impact occurred by the remainder of the total warehouse before, impact occurred by the remainder of t	d the Carroll/Cass where a home had mage to three home tornado briefly into s snapped five to tecrossing US 35 nor som Air Reserve B  0 0 0  High School.  JNI ARPT [40.74, -6] 0 0 cogansport Bypass ore crossing the byth on a sun room that	County line. The tornado remained over dists chimney blown off and a barn on the less on County Road 1250, west of tensified as it entered a grove of trees en feet above the base (DI: TH DOD: 17th of County Road 1000 S where power Base. A maximum intensity of EF2 was  Thunderstorm Wind (MG 58 kt)  Source: Public  Thunderstorm Wind (EG 60 kt)  Source: Emergency Manager  86.38]  Tornado (EF0, L: 1.13 mi , W: 150 yd)  Source: NWS Storm Survey  Road and north of County Road 250 pass. A home on West Clinton Street at had structural issues and aided in the

11/17/13 15:24 EST

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Source: Public

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
The public reported the Bob Evans billboard sign	was ripped in half by strong wi	inds.		
FULTON COUNTY 0.9 NW ROCHESTER [41.0	08, -86.23]			
	11/17/13 15:24 EST		0	Thunderstorm Wind (EG 60 kt)
	11/17/13 15:25 EST		0	Source: Emergency Manager
Emergency management officials reported a 30 f	oot high pine tree snapped fou	r feet above the b	ase.	
MIAMI COUNTY 0.9 NW BENNETTS [40.59, -	B6.11]			
	11/17/13 15:26 EST		0	Thunderstorm Wind (EG 70 kt)
	11/17/13 15:27 EST		0	Source: Emergency Manager
Emergency management officials reported the M	cClures gas station awning wa	s removed. Stop	ights were ripped f	rom their mounts.
WHITLEY COUNTY 1.5 SSE ETNA [41.25, -85	i.561			
	11/17/13 15:27 EST		0	Thunderstorm Wind (EG 55 kt)
	11/17/13 15:28 EST		0	Source: Emergency Manager
Emergency management officials reported a tree	down across a road with power	er lines down.		
MUITI EV COUNTY A A ON COLUMNIA CON	FAA 4C 0F 403			
WHITLEY COUNTY 0.9 SW COLUMBIA CITY	[41.16, -85.49] 11/17/13 15:28 EST		0	Thunderstorm Wind (EG 60 kt)
	11/17/13 15:29 EST		0	Source: Emergency Manager
	10.10.20		· ·	course:o.goo, manago.
Emergency management officials reported nume	rous trees down across the cou	unty, many onto re	oadways. A few ba	rns also suffered roof damage.
MARSHALL COUNTY ARGOS [41.23, -86.25]				
	11/17/13 15:29 EST		0	Thunderstorm Wind (EG 55 kt)
	11/17/13 15:30 EST		0	Source: Emergency Manager
Emergency management officials reported trees	was blown down across Yearic	k and 1st Streets		
BLACKFORD COUNTY HARTFORD CITY [40	.4585.371			
	11/17/13 15:30 EST		0	Thunderstorm Wind (EG 55 kt)
	11/17/13 15:31 EST		0	Source: Emergency Manager
Emergency management officials reported trees	and power lines down across tl	he county. No sig	nificant damage wa	as reported.
MIAMI COUNTY 0.7 N (GUS)GRISSOM AFB F	DED [40 66 -86 15]			
MIAMI GOOKIT U.F IV (GOO)GINGGOM AF B F	11/17/13 15:30 EST		0	Thunderstorm Wind (MG 73 kt)
	11/17/13 15:31 EST		0	Source: AWOS
A 84 mph wind gust was recorded by automated	weather equipment at the Gris	som Air Reserve	Base.	
			_	
MIAMI COUNTY 1.8 NW BUNKER HILL [40.69	·         = ·	ILL [40.70, -86.07	=	Tornado (EE1 1 : 2.97 mi W: 250 vd)
	11/17/13 15:30 EST 11/17/13 15:33 EST		0	Tornado (EF1, L: 2.87 mi , W: 250 yd)
	11/1//13 15:33 EST		0	Source: NWS Storm Survey
A survey of damage by NWS and emergency matured touched down in a field southeast of the intersect to travel east where it hit another hog barn and to thrown back into the eastern side of the building trees on county Road 50 West before hitting a trawere strewn out for a half mile to the NE. The tormph. Although the distance between the 2 points	tion of US 31 and County Road bok off the roof and collapsed the and smashed the exhaust syste ailer home where half of the wa mado then lifted about a third of	I 500 South and the walls (DI: SBO em. The tornado the series collapsed for mile northeast	nen took the roof of DOD: 6). One piec hen turned NE and I (DI: MHSW DOD: of the trailer. Maxii	ff of a hog barn. The tornado continued be of wall (estimated near 1/2 ton) was I did extensive tree damage to a grove of 4) and insulation and pieces of debris mum winds are estimated around 110
KOSCIUSKO COUNTY 0.7 N BARBEE [41.31	, -85.72]			
·	11/17/13 15:32 EST		0	Thunderstorm Wind (MG 55 kt)
	11/17/13 15:33 EST		0	Source: NWS Employee

An off duty NWS employee reported extensive tree damage in North Webster, with several trees onto roadways.

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	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MIAMI COUNTY PERU [40.75, -86.07]				
	11/17/13 15:35 EST		0	Thunderstorm Wind (EG 52 kt)
	11/17/13 15:36 EST		0	Source: Emergency Manager
mergency management officials estimated	d wind gusts of at least 60 mph with	multiple power ou	tages in the area.	
OSCIUSKO COUNTY 1.8 NNW BURKE	ET [41.17, -85.99], 1.3 WNW PALES	TINE [41.19, -85.9	7]	
	11/17/13 15:38 EST		0	Tornado (EF1, L: 1.05 mi , W: 250 yd)
	11/17/13 15:40 EST		0	Source: NWS Storm Survey
scurred southwest of the intersection of Stand barn on the southeast corner of the sar amage. An adjacent barn was shifted off it sidence, causing roughly 75 percent of the orth side of the road were also blown down ructural damage to a home along South T aximum wind speeds with the tornado are	me intersection. A few small hardworks foundation with the north facing done roof and trusses to be ripped off and the state of the continued northeast inkey Road. The tornado lifted shorts	od trees were sna oors and wall buck nd thrown to the r st it cause widesp	pped with the adjact sled. As the tornado orth northwest abo read tree damage i	cent residence suffering minor shingle o crossed State Route 25 it clipped a ut 250 yards. Power poles on the n a wooded area, as well as minor
_KHART COUNTY 0.5 W ELKHART [4	1.68, -85.98]			
	11/17/13 15:40 EST		0	Thunderstorm Wind (EG 55 kt)
	11/17/13 15:41 EST		0	Source: Public
KHART COUNTY 0.7 S WAKARUSA	[41.52, -86.02] 11/17/13 15:42 EST 11/17/13 15:43 EST		0	Thunderstorm Wind (EG 55 kt) Source: Public
ne public reported trees down, as well as		nty Road 1 near V		
RANT COUNTY 1.4 SSW MIER [40.55,	-85.84], 4.6 ENE JALAPA [40.65, -8	35.67]		
	11/17/13 15:42 EST		0	Tornado (EF2, L: 11.62 mi , W: 700 yd)
	11/17/13 15:52 EST		0	Source: NWS Storm Survey
NWS survey of damage in Grant county in rest of County Road 900 West where a how amage to two residences near the intersecutify subsequent removal of adjacent roof.	g barn suffered some roof damage. ction of County Roads 300 North and A nearby home lost its entire roof (DI	The tornado moved 600 West. A laro	ed quickly northeas ge portion of the fro . The tornado conti	t and intensified where it caused nt wall of a one story home to collapse nued to intensify further approaching
EF2 intensity as it cause extensive damage coof of the residence. EF2 intensity was read nome was nearly removed (DI: FR12 DOD: amounts and intensity of roof damage. Tree County Road 00 West/Wabash County Road around 125 mph.	ched around the intersection of Cou 6). The tornado slowly weakened the es also suffered varying degrees of d	inty Road 325 We he remainder of it damage. The torna	st and Frances/Slo s track impacting of ado cross briefly int	cum Road where the top of a two story ther residences with decreasing o Wabash county west of Grant
F2 intensity as it cause extensive damage pof of the residence. EF2 intensity was rea ome was nearly removed (DI: FR12 DOD: mounts and intensity of roof damage. Tree county Road 00 West/Wabash County Road	ached around the intersection of Cou 6). The tornado slowly weakened the es also suffered varying degrees of d ad 600 East. The tornado was on the	inty Road 325 We he remainder of it damage. The torna	st and Frances/Slo s track impacting of ado cross briefly int	cum Road where the top of a two story ther residences with decreasing o Wabash county west of Grant
F2 intensity as it cause extensive damage of of the residence. EF2 intensity was read once was nearly removed (DI: FR12 DOD: mounts and intensity of roof damage. Tree bunty Road 00 West/Wabash County Road ound 125 mph.	ached around the intersection of Cou 6). The tornado slowly weakened the es also suffered varying degrees of d ad 600 East. The tornado was on the	inty Road 325 We he remainder of it damage. The torna	st and Frances/Slo s track impacting of ado cross briefly int	cum Road where the top of a two story ther residences with decreasing o Wabash county west of Grant
F2 intensity as it cause extensive damage of of the residence. EF2 intensity was reacome was nearly removed (DI: FR12 DOD: mounts and intensity of roof damage. Tree ounty Road 00 West/Wabash County Roaround 125 mph.	ached around the intersection of Cou 6). The tornado slowly weakened the es also suffered varying degrees of d ad 600 East. The tornado was on the	inty Road 325 We he remainder of it damage. The torna	st and Frances/Slo s track impacting of ado cross briefly int 1.5 miles with wind	cum Road where the top of a two story ther residences with decreasing o Wabash county west of Grant ds reaching a maximum intensity of
F2 intensity as it cause extensive damage of of the residence. EF2 intensity was real or was nearly removed (DI: FR12 DOD: nounts and intensity of roof damage. Tree ounty Road 00 West/Wabash County Road ound 125 mph.  ABASH COUNTY WABASH [40.80, -8]	ached around the intersection of Cou 6). The tornado slowly weakened these also suffered varying degrees of doubt do 600 East. The tornado was on the 15.82]	inty Road 325 We he remainder of it damage. The tornal ground for over 1	st and Frances/Slo s track impacting of ado cross briefly int 1.5 miles with wind 0	cum Road where the top of a two story ther residences with decreasing o Wabash county west of Grant ds reaching a maximum intensity of  Thunderstorm Wind (EG 55 kt) Source: Public
F2 intensity as it cause extensive damage of of the residence. EF2 intensity was read once was nearly removed (DI: FR12 DOD: mounts and intensity of roof damage. Tree bunty Road 00 West/Wabash County Road ound 125 mph.	ached around the intersection of Cou 6). The tornado slowly weakened these also suffered varying degrees of did 600 East. The tornado was on the 15.82] 11/17/13 15:42 EST 11/17/13 15:43 EST in the city. A home suffered partial research	inty Road 325 We he remainder of it damage. The tornate ground for over 1	st and Frances/Slo s track impacting of ado cross briefly int 1.5 miles with wind 0	cum Road where the top of a two story ther residences with decreasing o Wabash county west of Grant ds reaching a maximum intensity of  Thunderstorm Wind (EG 55 kt) Source: Public

A survey of damage in Wabash county by a NWS Survey team revealed that a tornado that would eventually reach EF2 intensity produced damage starting just south of the Wabash/Kosciusko county line just west of State Route 15. The tornado destroyed a small shed (DI: SBO DOD:6) and caused minor roof damage to a residence before going over open fields. The tornado crossed into Kosciusko county approximately 4 tenths of a mile east of State Route 15, where it continued for an additional 3.5 miles. While in Wabash county, the tornado produced maximum wind speeds of around 85 mph (EF0) in Wabash county and was on the ground for about 7 tenths of a mile.

11/17/13 15:44 EST

0

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Source: NWS Storm Survey

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ELKHART COUNTY 1.4 N WAKAF	RUSA [41.55, -86.02]			
	11/17/13 15:44 EST		0	Thunderstorm Wind (EG 50 kt)
	11/17/13 15:45 EST		0	Source: Public
Γhe public reported a shed was throw	n into a tree with a swing-set being blown	n over.		
KOSCIUSKO COUNTY 1.9 S SILV	ER LAKE [41.04, -85.88], 2.4 ENE SILVE	R LAKE [41.08, -8	=	Towards (FFO Lo 0 47 ori: W/ 450 orl)
	11/17/13 15:44 EST 11/17/13 15:48 EST		0	Tornado (EF2, L: 3.47 mi , W: 150 yd) Source: NWS Storm Survey
county line, west of State Route 15. Ithe northeast over mainly open fields, location there were 4 cattle barns con the farm at the time the tornado hit an second story roof removed and the seand power poles were snapped at the	Cosciusko counties by a NWS Survey tear The tornado crossed into Kosciusko coun occasionally causing tree damage until i rpletely destroyed with their contents thro d 10 of them were killed with another 10 econd story bedroom shifted as the east v base along SR 14. The tornado dissipate miles with a maximum estimated wind sp	ty approximately 4 t hit a farm on CR own east-northeast injured. There was wall buckled outwa ed shortly after this	ornado touched do tenths of a mile ea 300 W approximat into the field (DI:S a two story home rd. The debris field	own just south of the Wabash/Kosciusko ast of State Route 15 and continued to ely half a mile south of SR 14. At this BO DOD: 8). There were 600 cattle at on this property that had part of the I from this tornado continued to the NE
GRANT COUNTY 0.7 N SWAYZEE	[40.51, -85.83]			
	11/17/13 15:47 EST		0	Thunderstorm Wind (EG 74 kt)
	11/17/13 15:48 EST		0	Source: Trained Spotter
A trained spotter estimated wind gust	s to 85 mph along with quarter size hail.			
WABASH COUNTY 1.5 NNE WAB	ASH [40.82, -85.81]			
	11/17/13 15:48 EST		0	Thunderstorm Wind (MG 60 kt)
A mesonet site recorded at 69 mph w	11/17/13 15:49 EST ind gust.		0	Source: Mesonet
MOSCHIEMO COUNTY A F F DIFD	OETON (44.20, 05.74)			
KOSCIUSKO COUNTY 0.5 E PIER	11/17/13 15:50 EST		0	Thunderstorm Wind (EG 60 kt)
	11/17/13 15:51 EST		0	Source: State Official
A state official reported a tree down s	outh of Pierceton.			
GRANT COUNTY 0.9 SE SHADY H	HILLS [40.56, -85.66]			
	11/17/13 15:51 EST		0	Thunderstorm Wind (EG 70 kt)
	11/17/13 15:52 EST		0	Source: Trained Spotter
A trained spotter reported 50 to 60 tre suffered roof damage.	es down across the city. A semi was ove	rturned near Meye	r Road in southerr	n Marion. The armory on State Route 18
	NTAINE 140 05 05 05 05 0 505 1 4 50	NTAINE [40.65, -8	5.67]	
WABASH COUNTY 3.0 ESE LA FO		• , .	•	
WABASH COUNTY 3.0 ESE LA FO	11/17/13 15:52 EST	• • • • • •	0	Tornado (EF2, L: 0.13 mi , W: 700 yd)
A tornado which produced EF2 dama metal panels on a pole barn before qu	11/17/13 15:52 EST 11/17/13 15:53 EST ge in Grant county briefly entered southe	rn Wabash county,	0 causing damage	Source: NWS Storm Survey
A tornado which produced EF2 dama metal panels on a pole barn before qu best.	11/17/13 15:52 EST 11/17/13 15:53 EST ge in Grant county briefly entered southe sickly dissipating. The tornado intensity in	rn Wabash county,	0 causing damage as on the lower er	Source: NWS Storm Survey some minor damage to the roof and nd of EF0 and lasted roughly a minute at
-	11/17/13 15:52 EST 11/17/13 15:53 EST ge in Grant county briefly entered southe lickly dissipating. The tornado intensity in 41.50, -85.83]	rn Wabash county,	0 causing damage as on the lower er	Source: NWS Storm Survey some minor damage to the roof and nd of EF0 and lasted roughly a minute at  Thunderstorm Wind (EG 55 kt)
A tornado which produced EF2 dama metal panels on a pole barn before qu best. ELKHART COUNTY NEW PARIS [	11/17/13 15:52 EST 11/17/13 15:53 EST ge in Grant county briefly entered southe sickly dissipating. The tornado intensity in	rn Wabash county i Wabash county w	0 causing damage as on the lower er  0 0	Source: NWS Storm Survey some minor damage to the roof and nd of EF0 and lasted roughly a minute at
A tornado which produced EF2 dama, metal panels on a pole barn before quibest.  ELKHART COUNTY NEW PARIS [	11/17/13 15:52 EST 11/17/13 15:53 EST  ge in Grant county briefly entered southe slickly dissipating. The tornado intensity in  41.50, -85.83]  11/17/13 15:53 EST 11/17/13 15:54 EST  0 to 12 inch diameter tree was blown dow	rn Wabash county w Wabash county w	0 causing damage as on the lower er  0 0	Source: NWS Storm Survey some minor damage to the roof and nd of EF0 and lasted roughly a minute at  Thunderstorm Wind (EG 55 kt)
A tornado which produced EF2 dama, metal panels on a pole barn before qubest.  ELKHART COUNTY NEW PARIS [  Amateur radio operators reported a 10	11/17/13 15:52 EST 11/17/13 15:53 EST ge in Grant county briefly entered southe lickly dissipating. The tornado intensity in 41.50, -85.83] 11/17/13 15:53 EST 11/17/13 15:54 EST	rn Wabash county w Wabash county w	0 causing damage as on the lower er  0 0	Source: NWS Storm Survey some minor damage to the roof and nd of EF0 and lasted roughly a minute at  Thunderstorm Wind (EG 55 kt)

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Property &

**Crop Dmg** 

**Event Type and Details** 

Deaths &

Injuries

Date/Time

Location

A survey of damage southwest of Oswego by a NWS Survey team revealed that a EF1 tornado p Touchdown occurred in a harvested field southwest of the intersection of County Roads 450 North flipped in this area. The tornado continued northeast crossing County Road 450 North, severely county bent at more than a 45 degree angle. One pole had 3 large transformers for the center pivot on it, then impacted the Pines subdivision, northeast of 450 North and 250 East. Two to three dozen he or uprooted (DI: TS DOD: 4). One house was impacted on both sides with the roof being penetral. The tornado moved through the remainder of the subdivision and adjacent properties with varying damage involved a home on County Road 300 East, just south of Rader Road where moderate roin an adjacent wooded area. The tornado lifted shortly after this point prior to crossing Armstrong estimated at 95 mph.	h and 250 East. lamaging 7 powe with these being ealthy pine trees led. Two vehicles g degrees of mai pof damage occur	Several segments of a center pivot were er poles, which were either snapped or g pushed on to the roadway. The tornado between 30 and 50 feet tall were snapped s had trees fall onto them, crushing them. nly roof and tree damage. The last noted urred and a narrow path of trees snapped
GRANT COUNTY 0.8 SSE ROSEBURG [40.51, -85.72], 0.8 SSE ROSEBURG [40.51, -85.72]		
11/17/13 15:55 EST	0	Tornado (EF0, L: 0.04 mi , W: 20 yd)
11/17/13 15:56 EST	0	Source: NWS Storm Survey
A survey of damage in west central Grant county revealed damage consistent with a brief EF0 to of the intersection of County Roads 300 South and 300 West. A storage shed on the property sus extensive tree damage also noted. The tornado quickly lifted after crossing County Road 300 South	stained some roo	of damage (DI: SBO DOD: 2) with
GRANT COUNTY 0.9 NE GAS CITY [40.49, -85.61]		
11/17/13 15:55 EST	0	Thunderstorm Wind (EG 65 kt)
11/17/13 15:56 EST	0	Source: Public
A 50 foot section of wall and roof collapsed at the Dollar General Warehouse.		
GRANT COUNTY 0.9 SE SHADY HILLS [40.56, -85.66]		
11/17/13 15:55 EST	0	Thunderstorm Wind (EG 60 kt)
11/17/13 15:56 EST	0	Source: Trained Spotter
Trained spotters reported many trees and power lines down throughout the county.  GRANT COUNTY 1.3 ENE MARION [40.56, -85.56]  11/17/13 15:55 EST  11/17/13 15:56 EST	0 0	Thunderstorm Wind (EG 65 kt) Source: State Official
County officials reported the Summit Village Trailer park was heavily damaged, with some mobile	homes on top o	f each other.
KOSCIUSKO COUNTY 1.4 N OSWEGO [41.34, -85.78]		
11/17/13 15:55 EST	0	Thunderstorm Wind (EG 55 kt)
11/17/13 15:56 EST	0	Source: NWS Employee
A off duty NWS employee reported a 12 inch diameter tree was twisted and split on the north side general area.	e of Lake Tippec	anoe. Other tree damage was found in the
KOSCIUSKO COUNTY 1.5 NE OSWEGO [41.34, -85.76]		
11/17/13 15:55 EST	0	Thunderstorm Wind (EG 60 kt)
11/17/13 15:56 EST	0	Source: NWS Employee
Several pine trees and other varieties of trees were snapped just south of the Lake Tippecanoe C	Country Club.	
KOSCIUSKO COUNTY 2.5 NE OSWEGO [41.35, -85.75]		
11/17/13 15:55 EST	0	Thunderstorm Wind (EG 60 kt)
11/17/13 15:56 EST	0	Source: NWS Employee
Half of the east facing side of a older barn roof was blown off into an field to the north. A center piflipped.	vot irrigation sys	stem in the same field has 2 segments
HUNTINGTON COUNTY 2.3 SSE MAKIN [40.94, -85.56]		
11/17/13 15:57 EST	40K	Thunderstorm Wind (EG 60 kt)
11/17/13 15:58 EST	0	Source: Emergency Manager
	0	Source: Emergency Manager

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
HUNTINGTON COUNTY 1.0 W HUNTING				
	11/17/13 15:59 EST		0	Thunderstorm Wind (EG 50 kt)
	11/17/13 16:00 EST		0	Source: Public
The public reported several tree limbs down	n down throughout the city.			
HUNTINGTON COUNTY 1.5 SSW MARK	KLE [40.81, -85.34]			
	11/17/13 16:02 EST		0	Thunderstorm Wind (MG 70 kt)
	11/17/13 16:03 EST		0	Source: Trained Spotter
A trained spotter measured a 81 mph wind	gust. Several trees and tree limbs v	vere blown down i	n the area with min	or structural damage to homes.
HUNTINGTON COUNTY 2.7 NNE ROAM	NOKE [41.00, -85.35]			
	11/17/13 16:02 EST		0	Thunderstorm Wind (EG 60 kt)
	11/17/13 16:03 EST		0	Source: Trained Spotter
A trained spotter reported severe damage t	to a barn, with a large maple tree sp	olit on County Road	d 1200 North in Roa	anoke.
NOBLE COUNTY KIMMELL [41.40, -85.	55]			
• , , , ,	11/17/13 16:02 EST		0	Thunderstorm Wind (EG 61 kt)
	11/17/13 16:03 EST		0	Source: Public
The public estimated 60 to 70 mph thunder	rstorm wind gusts.			
WHITLEY COUNTY 2.9 SE RABER [41.	05, -85.39]			
•	11/17/13 16:04 EST		0	Thunderstorm Wind (EG 60 kt)
	11/17/13 16:05 EST		0	Source: Emergency Manager
Emergency management officials reported	half of a barn roof was torn off.			
HUNTINGTON COUNTY 1.5 SSW MARK	KLE [40.81, -85.34] 11/17/13 16:07 EST		0	Thundaratory Wind (MC 70 ltt)
	11/17/13 16:07 EST 11/17/13 16:08 EST		0	Thunderstorm Wind (MG 70 kt) Source: Trained Spotter
A trained anotter reported covered trace an			· ·	Course. Trained opolici
A trained spotter reported several trees and	d tree littlibs down.			
NOBLE COUNTY ALBION [41.40, -85.42	2] 11/17/13 16:08 EST		0	Thunderstorm Wind (EG 60 kt)
	11/17/13 16:09 EST		0	Source: Public
			ŭ	Course. I aprile
The public reported several trees down in t	he area, plus some damage to a loc	cal car wash.		
ALLEN COUNTY 1.3 WNW WAYNEDAL				
	11/17/13 16:10 EST		0	Thunderstorm Wind (EG 52 kt)
	11/17/13 16:11 EST		0	Source: Trained Spotter
A trained spotter estimated wind gusts to 6	u mpn with tree limbs of unknown s	oze blown down in	tne area.	
HUNTINGTON COUNTY 1.3 ESE WARF			0	Thunderstorm Wind /MO 51 kt
	11/17/13 16:10 EST 11/17/13 16:11 EST		0	Thunderstorm Wind (MG 51 kt) Source: Mesonet
A mesonet station recorded a 59 mph wind			V	Source. Medoriet
A mosoriet station recorded a 39 mpil Willd	i guot.			
WELLS COUNTY 0.7 N BLUFFTON [40.	. <b>74, -85.17]</b> 11/17/13 16:15 EST		0	Thunderstorm Wind (MG 51 kt)
	11/17/13 16:16 EST		0	Source: Trained Spotter
	117710 10.10 LOT		V	Course. Trained opered
A trained spotter reported a 59 mph wind g	ust.			

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	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	11/17/13 16:15 EST		0	Thunderstorm Wind (MG 56 kt)
	11/17/13 16:16 EST		0	Source: Mesonet
mesonet station recorded a wind gust to 6	34 mph.			
LLEN COUNTY 2.3 ENE (FWA)BAER F				
	11/17/13 16:17 EST		0	Thunderstorm Wind (EG 65 kt)
	11/17/13 16:18 EST		0	Source: Trained Spotter
trained spotter reported three pole barns	were destroyed with a grain silo hav	ving its top remove	ed at the intersectio	n of Ferguson and Thiele Roads.
IOBLE COUNTY 1.6 E WAKEFIELD VL	_			
	11/17/13 16:17 EST		0	Thunderstorm Wind (EG 60 kt)
	11/17/13 16:18 EST		0	Source: Emergency Manager
mergency management officials reported	severe structural damage to a resid	ence.		
/ELLS COUNTY 2.1 S VERA CRUZ [40				
	11/17/13 16:17 EST		0	Thunderstorm Wind (MG 55 kt)
	11/17/13 16:18 EST		0	Source: Trained Spotter
trained spotter reported wind gusts to 63	mph along with power outages.			
LLEN COUNTY 0.5 E NEW HAVEN [41				
	11/17/13 16:22 EST		0	Thunderstorm Wind (EG 55 kt)
	11/17/13 16:23 EST		0	Source: Public
he public reported several trees down.				
LLEN COUNTY 0.7 N FT WAYNE [41.0	08, -85.13] 11/17/13 16:25 EST		0	Thunderstorm Wind (EG 55 kt)
	11/17/13 16:26 EST		0	Source: Amateur Radio
mateur radio operators reported a 24 foot		west of State Ro	-	
STEUBEN COUNTY ANGOLA [41.63, -8	5.001			
• ′				
	11/17/13 16:25 EST		0	Thunderstorm Wind (EG 56 kt)
	11/17/13 16:25 EST 11/17/13 16:26 EST		0	Source: Emergency Manager
Emergency management officials reported livings estimated to 65 mph.	11/17/13 16:26 EST	n Pleasant Lake. F	0	Source: Emergency Manager
Vinds estimated to 65 mph.	11/17/13 16:26 EST multiple structures were damaged in	n Pleasant Lake. F	0 Power lines were bl	Source: Emergency Manager own down across the area as well.
Vinds estimated to 65 mph.	11/17/13 16:26 EST multiple structures were damaged in .93] 11/17/13 16:26 EST	n Pleasant Lake. F	0 Power lines were bl	Source: Emergency Manager own down across the area as well.  Hail (1.00 in)
Vinds estimated to 65 mph.  DAMS COUNTY DECATUR [40.83, -84	11/17/13 16:26 EST multiple structures were damaged in  .93] 11/17/13 16:26 EST 11/17/13 16:27 EST	n Pleasant Lake. F	0 Power lines were bl	Source: Emergency Manager own down across the area as well.
Vinds estimated to 65 mph.  DAMS COUNTY DECATUR [40.83, -84	11/17/13 16:26 EST multiple structures were damaged in  .93] 11/17/13 16:26 EST 11/17/13 16:27 EST	n Pleasant Lake. F	0 Power lines were bl	Source: Emergency Manager own down across the area as well.  Hail (1.00 in)
Vinds estimated to 65 mph.  DAMS COUNTY DECATUR [40.83, -84 trained spotter reported quarter size hail.	11/17/13 16:26 EST multiple structures were damaged in .93] 11/17/13 16:26 EST 11/17/13 16:27 EST	n Pleasant Lake. F	0 Power lines were bl	Source: Emergency Manager own down across the area as well.  Hail (1.00 in) Source: Trained Spotter
Vinds estimated to 65 mph.  DAMS COUNTY DECATUR [40.83, -84 trained spotter reported quarter size hail.	11/17/13 16:26 EST multiple structures were damaged in .93]	n Pleasant Lake. F	0 Power lines were bl	Source: Emergency Manager own down across the area as well.  Hail (1.00 in) Source: Trained Spotter  Thunderstorm Wind (EG 52 kt)
Vinds estimated to 65 mph.  DAMS COUNTY DECATUR [40.83, -84 trained spotter reported quarter size hail.  DAMS COUNTY DECATUR [40.83, -84	11/17/13 16:26 EST multiple structures were damaged in  .93]	n Pleasant Lake. F	0 Power lines were bl	Source: Emergency Manager own down across the area as well.  Hail (1.00 in) Source: Trained Spotter
Vinds estimated to 65 mph.  DAMS COUNTY DECATUR [40.83, -84]  trained spotter reported quarter size hail.  DAMS COUNTY DECATUR [40.83, -84]	11/17/13 16:26 EST multiple structures were damaged in  .93]	n Pleasant Lake. F	0 Power lines were bl	Source: Emergency Manager own down across the area as well.  Hail (1.00 in) Source: Trained Spotter  Thunderstorm Wind (EG 52 kt)
	11/17/13 16:26 EST multiple structures were damaged in  .93]	n Pleasant Lake. F	0 Power lines were bl	Source: Emergency Manager own down across the area as well.  Hail (1.00 in) Source: Trained Spotter  Thunderstorm Wind (EG 52 kt)

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ADAMS COUNTY --- 0.9 SE GENEVA [40.59, -84.96]

	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	11/17/13 16:50 EST		0	Thunderstorm Wind (MG 56 kt)
	11/17/13 16:51 EST		0	Source: Trained Spotter
a trained spotter reported wind gusts to	o 64 mph.			
JAY COUNTY PORTLAND [40.43, -	<del>-</del>			T
	11/17/13 16:55 EST		0	Thunderstorm Wind (EG 55 kt)
	11/17/13 16:56 EST		0	Source: Emergency Manager
Emergency management officials report were also received.	rted some trees and tree limbs were blo	wn down across p	ortions of the count	y. Reports of leaning power poles
perfect environment for individual thu significant, which produced swaths o	wpoints greater than 60 degrees. 0-1kn understorms to rapidly rotate. Numero of wind damage as well as several weal ted across the area in a matter of hours	us circulations we k to strong tornad	ere noted during th	ne event, some
IN-Z004) ST. JOSEPH, (IN-Z014) MAR	RSHALL			
	11/26/13 23:00 EST		0	Lake-Effect Snow
	11/27/13 20:00 EST		0	
IN-Z005) ELKHART				
	11/26/13 23:00 EST		0	Winter Weather
			0	
	11/27/13 20:00 EST		-	
in a narrow band across St. Joseph C	ected portions of north-central Indiana County into northern Marshall County,		h. Snowfall totals o	
in a narrow band across St. Joseph C	ected portions of north-central Indiana County into northern Marshall County, st		h. Snowfall totals on the periphery	of this band.
in a narrow band across St. Joseph C	ected portions of north-central Indiana County into northern Marshall County, st		h. Snowfall totals on the periphery	
n a narrow band across St. Joseph C	ected portions of north-central Indiana County into northern Marshall County, st		h. Snowfall totals on the periphery	of this band.
in a narrow band across St. Joseph C	ected portions of north-central Indiana County into northern Marshall County, st 11/12/13 00:00 EST 11/12/13 13:00 EST up over far southwest Lower Michigan	with lighter snow	h. Snowfall totals of son the periphery  0	of this band.  Lake-Effect Snow
MICHIGAN, Extreme Southwe MI-Z077) BERRIEN  An intense lake effect snow band set	ected portions of north-central Indiana County into northern Marshall County, st 11/12/13 00:00 EST 11/12/13 13:00 EST up over far southwest Lower Michigan re common.	with lighter snow	h. Snowfall totals of son the periphery  0	of this band.  Lake-Effect Snow
MICHIGAN, Extreme Southwe MI-Z077) BERRIEN  An intense lake effect snow band set snowfall totals in excess of a foot we	ected portions of north-central Indiana County into northern Marshall County, st 11/12/13 00:00 EST 11/12/13 13:00 EST up over far southwest Lower Michigan re common.	with lighter snow	h. Snowfall totals of son the periphery  0	of this band.  Lake-Effect Snow

0

0

0

0

A survey of damage in the Cassopolis area by a NWS Survey team revealed that a EF1 tornado produced damage along a roughly four tenths of a mile path. Touchdown occurred on the southern outskirts of Cassopolis at a farm where a older two story barn was severely damaged with the entire second story of the barn being destroyed with damage thrown upward of 200 yards downstream (DI: SBO DOD 8). The tornado continued quickly northeast, passing across the northwestern part of the Ross Beatty Jr./Sr. High School property and impacting a detached two car garage, causing its total destruction (DI: SBO DOD: 6). Debris was thrown up to 500 yards northeast from the point of impact onto the Park Shore Golf Course, where several trees were snapped or uprooted. Maximum wind speeds with the tornado are estimated at 110 mph.

11/17/13 15:25 EST

11/17/13 15:26 EST

11/17/13 15:27 EST

11/17/13 15:29 EST

CASS COUNTY --- 1.5 WSW PARK SHR RESORT [41.90, -86.01], 1.2 W PARK SHR RESORT [41.90, -86.00]

A trained spotter found tree limbs down. Damage to a building was reported by the spotter, but no details were given on the amount of damage.

CASS COUNTY --- 2.1 N LA GRANGE [41.98, -86.05]

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Thunderstorm Wind (EG 50 kt)

Tornado (EF1, L: 0.38 mi , W: 50 yd) Source: NWS Storm Survey

Source: Trained Spotter

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CASS COUNTY 1.5 NNW JOI	NES [41.92, -85.81]			
	11/17/13 15:33 EST		0	Thunderstorm Wind (EG 60 kt)
	11/17/13 15:34 EST		0	Source: Trained Spotter
· · · · · ·	power poles were snapped. Other damage inc vas lifted and then tossed 100 yards.	luded the roof torr	off a small shed a	and several center pivots being
ST. JOSEPH COUNTY CENT	REVILLE [41.92, -85.53]			
	11/17/13 15:51 EST		0	Thunderstorm Wind (EG 55 kt)
	11/17/13 15:52 EST		0	Source: Public
The public reported trees and po	wer lines down throughout the entire county.			
BRANCH COUNTY 1.2 SW U	NION CITY [42.06, -85.15]			
	11/17/13 16:10 EST		0	Thunderstorm Wind (EG 60 kt)
	11/17/13 16:11 EST		0	Source: Public
The public reported several trees	s down near Union Lake.			
Deep low pressure moved acro	ss the northern Great Lakes, with a strong co	old front trailing v	ell south into Ark	ansas. A 50 to 60 knot
	in dewpoints greater than 60 degrees. 0-1km	_		
norfoot onvironment for individ	ual thunderstorms to rapidly rotate with the le			

low level jet aided in advecting in dewpoints greater than 60 degrees. 0-1km storm relative helicity values of 400 to 600 m2/s2 setup the perfect environment for individual thunderstorms to rapidly rotate with the lower values into far southern Lower Michigan. While favorable conditions existed, the area was just far enough north of the best conditions to keep the most severe weather away. However, isolated wind damage and one tornado was reported.

(MI-Z077) BERRIEN, (MI-Z078) CASS			
	11/26/13 23:00 EST	0	Lake-Effect Snow
	11/27/13 20:00 EST	0	

A band of heavy lake effect snow impacted portions of southwest Lower Michigan on November 27th. Snowfall totals of 8 to 16 inches occurred in a narrow band across eastern Berrien County and far western Cass County.

VAN WERT COUNTY 0.5 W VAN W	ERT [40.87, -84.58]		
	11/17/13 16:42 EST	0	Thunderstorm Wind (MG 54 kt)
	11/17/13 16:43 EST	0	Source: Mesonet
A 62 mph wind gust was recorded at the	ne Van Wert Middle School.		
A 62 mph wind gust was recorded at the DEFIANCE COUNTY 1.7 WNW THE			
		0	Thunderstorm Wind (EG 65 kt)

Emergency management omorals	reported a GOA Grossing gate was broken by the high	i wiilas. Iii adailioii, a pe	ower pole leli onto a riodae and our.					
VAN WERT COUNTY 2.0 NW WETSEL [40.97, -84.46], 2.6 N WETSEL [40.99, -84.42]								
	11/17/13 16:47 EST	0	Tornado (EF1, L: 2.14 mi , W: 150 yd)					
	11/17/13 16:49 EST	0	Source: NWS Storm Survey					

A survey of damage in the northeastern part of Van Wert county by county emergency management officials and a NWS Survey team revealed that a EF1 tornado produced damage along a roughly two and one tenth mile long path. Touchdown occurred south of the intersection of Elm Sugar and Donner Road where several barns on two adjacent properties suffered damage. The northern most barn suffered extensive roof damage and loss of trusses (DI: SBO DOD: 4) with other barns suffering partial roof damage. The tornado continued northeast across open fields and occasional wooded areas, causing sporadic tree damage. A horse trailer was flipped over onto a truck at a residence on Middle Point Wetzel Road with a barn suffering minor roof damage. The tornado reached its end point at a business where some travel campers were flipped and some metal roofing was damaged. Maximum wind speeds with the tornado are estimated at 100 mph.

VAN WERT COUNTY --- 0.5 W WETSEL [40.95, -84.44]

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Location	Date/Time	Deaths &	Property &	Event Type and Details
	11/17/13 16:50 EST	Injuries	Crop Dmg 0	Thunderstorm Wind (EG 50 kt)
	11/17/13 16:51 EST		0	Source: Emergency Manager
Emergency management officials reporte reported down in the area.	ed three campers were rolled and sev	eral others knocked	d off their bases at	a storage area. Power lines were also
PUTNAM COUNTY 3.5 WNW DOUGL	AS [40.96, -84.39], 2.6 WNW MUNTA 11/17/13 16:52 EST	.NNA [40.99, -84.34	] 0	Tornado (EF2, L: 3.05 mi , W: 440 yd)
	11/17/13 16:54 EST		0	Source: NWS Storm Survey
Damage consistent with a tornado toucho County Road 27 where a barn suffered so impacting another barn on Route 66, nort torn off and carried through a field for nea	ome structural damage, with several l th of Road N. The barn suffered more	hay wagons throwr e extensive damage	or moved. The to	rnado continued rapidly northeast, ifters and lots of rood sheeting being
PAULDING COUNTY 2.1 SSE MANDA	ALF [40 99 -84 34] 2 1 SSF MANDA	I F [40 99 -84 34]		
TAGEDING GOONTT 2.1 GGE MANDA	11/17/13 16:54 EST	LL [40.55, -04.54]	0	Tornado (EF2, L: 0.02 mi , W: 440 yd)
	11/17/13 16:55 EST		0	Source: NWS Storm Survey
suffered some minor siding damage. The				Tornado (EF2, L: 8.04 mi , W: 440 yd)
	11/17/13 17:03 EST		0	Source: NWS Storm Survey
structural damage was noted across the suffered extensive damages to some of thardwood trees suffering greater damage occasional wooded areas with sporadic to	ver mainly open fields until entering the town, with several power poles down, he walls and the roof (DI: FR12 DOD: e (DI: TH DOD: 4). The tornado exited ree damage noted until finally lifting fire.	he town of Cloverda . The greatest dam : 7). A nearby home d town and continue	ale. Extensive tree age occurred to a e lost one of its wa ed northeast for se	lls (DI:FR12, DOD2) with adjacent veral more miles over open fields and
structural damage was noted across the suffered extensive damages to some of the hardwood trees suffering greater damage occasional wooded areas with sporadic to with a total two county path length of around the suffering sporadic to the suffering sporadic to the suffering sporadic transfer and suffering sporadic spo	ver mainly open fields until entering the town, with several power poles down, he walls and the roof (DI: FR12 DOD: e) (DI: TH DOD: 4). The tornado exited ree damage noted until finally lifting fround 11 miles.	he town of Cloverda . The greatest dam : 7). A nearby home d town and continue	ale. Extensive tree age occurred to a e lost one of its wa ed northeast for se	damage as well as minor to moderate church and a brick home. Both lls (DI:FR12, DOD2) with adjacent veral more miles over open fields and
structural damage was noted across the suffered extensive damages to some of the hardwood trees suffering greater damage occasional wooded areas with sporadic to with a total two county path length of around the suffering sporadic to the suffering sporadic to the suffering sporadic transfer and suffering sporadic spo	ver mainly open fields until entering the town, with several power poles down, he walls and the roof (DI: FR12 DOD: e) (DI: TH DOD: 4). The tornado exited ree damage noted until finally lifting fround 11 miles.	he town of Cloverda . The greatest dam : 7). A nearby home d town and continue	ale. Extensive tree age occurred to a e lost one of its wa ed northeast for se	damage as well as minor to moderate church and a brick home. Both lls (DI:FR12, DOD2) with adjacent veral more miles over open fields and
structural damage was noted across the suffered extensive damages to some of the nardwood trees suffering greater damage occasional wooded areas with sporadic to with a total two county path length of around the natural suffering the suffering suffering the suffering suffering to the suffering s	ver mainly open fields until entering the town, with several power poles down, he walls and the roof (DI: FR12 DOD: e) (DI: TH DOD: 4). The tornado exited ree damage noted until finally lifting fround 11 miles.	he town of Cloverda . The greatest dam : 7). A nearby home d town and continue	ale. Extensive tree age occurred to a e lost one of its wa ed northeast for se of Cloverdale. Max	damage as well as minor to moderate church and a brick home. Both lls (DI:FR12, DOD2) with adjacent veral more miles over open fields and kimum winds are estimated at 130 mph
structural damage was noted across the suffered extensive damages to some of the hardwood trees suffering greater damage occasional wooded areas with sporadic to with a total two county path length of around the hardwood of the hardwood o	ver mainly open fields until entering the town, with several power poles down. he walls and the roof (DI: FR12 DOD: e (DI: TH DOD: 4). The tornado exited ree damage noted until finally lifting fround 11 miles.  E [41.03, -84.35]  11/17/13 16:59 EST  11/17/13 17:00 EST	he town of Cloverda The greatest dam 7). A nearby home town and continue we miles northeast	ale. Extensive tree age occurred to a delete lost one of its was and northeast for set of Cloverdale. Max	damage as well as minor to moderate church and a brick home. Both lls (DI:FR12, DOD2) with adjacent veral more miles over open fields and kimum winds are estimated at 130 mph  Thunderstorm Wind (EG 55 kt) Source: Emergency Manager
structural damage was noted across the suffered extensive damages to some of the hardwood trees suffering greater damage occasional wooded areas with sporadic to with a total two county path length of around path length of a path length of a path length of a path length	ver mainly open fields until entering the town, with several power poles down. The walls and the roof (DI: FR12 DOD: et (DI: TH DOD: 4). The tornado exited ree damage noted until finally lifting fround 11 miles.  E [41.03, -84.35]  11/17/13 16:59 EST  11/17/13 17:00 EST  et a trailer was destroyed on Township.	he town of Cloverda The greatest dam 7). A nearby home town and continue we miles northeast	ale. Extensive tree age occurred to a ce lost one of its was ad northeast for se of Cloverdale. Max	damage as well as minor to moderate church and a brick home. Both alls (DI:FR12, DOD2) with adjacent overal more miles over open fields and kimum winds are estimated at 130 mph  Thunderstorm Wind (EG 55 kt) Source: Emergency Manager
structural damage was noted across the suffered extensive damages to some of the hardwood trees suffering greater damage occasional wooded areas with sporadic to with a total two county path length of around path length of a path length	ver mainly open fields until entering the town, with several power poles down. The walls and the roof (DI: FR12 DOD: et (DI: TH DOD: 4). The tornado exited ree damage noted until finally lifting from the field of the control of the	he town of Cloverda The greatest dam 7). A nearby home town and continue we miles northeast	ale. Extensive tree age occurred to a ce lost one of its was ad northeast for se of Cloverdale. Max	damage as well as minor to moderate church and a brick home. Both alls (DI:FR12, DOD2) with adjacent everal more miles over open fields and simum winds are estimated at 130 mph  Thunderstorm Wind (EG 55 kt) Source: Emergency Manager  Thunderstorm Wind (MG 52 kt)
structural damage was noted across the suffered extensive damages to some of the hardwood trees suffering greater damage occasional wooded areas with sporadic to with a total two county path length of around path length of a path length of a path length of a path length	ver mainly open fields until entering the town, with several power poles down. The walls and the roof (DI: FR12 DOD: et (DI: TH DOD: 4). The tornado exited ree damage noted until finally lifting fround 11 miles.  E [41.03, -84.35]  11/17/13 16:59 EST  11/17/13 17:00 EST  et a trailer was destroyed on Township.	he town of Cloverda The greatest dam 7). A nearby home town and continue we miles northeast	ale. Extensive tree age occurred to a ce lost one of its was ad northeast for se of Cloverdale. Max	damage as well as minor to moderate church and a brick home. Both alls (DI:FR12, DOD2) with adjacent overal more miles over open fields and kimum winds are estimated at 130 mph  Thunderstorm Wind (EG 55 kt) Source: Emergency Manager
structural damage was noted across the suffered extensive damages to some of the hardwood trees suffering greater damage occasional wooded areas with sporadic to with a total two county path length of around path length of a path length of	ver mainly open fields until entering the town, with several power poles down. The walls and the roof (DI: FR12 DOD: et (DI: TH DOD: 4). The tornado exited ree damage noted until finally lifting fround 11 miles.  E [41.03, -84.35]  11/17/13 16:59 EST  11/17/13 17:00 EST  ed a trailer was destroyed on Township and the series of the serie	the town of Cloverda The greatest dam The greatest dam The greatest dam The greatest dam The greatest dam The town and continue The greatest dam The greatest dam The greatest dam The greatest dam	ale. Extensive tree age occurred to a ce lost one of its was ad northeast for se of Cloverdale. Max	damage as well as minor to moderate church and a brick home. Both alls (DI:FR12, DOD2) with adjacent everal more miles over open fields and simum winds are estimated at 130 mph  Thunderstorm Wind (EG 55 kt) Source: Emergency Manager  Thunderstorm Wind (MG 52 kt)
structural damage was noted across the suffered extensive damages to some of the hardwood trees suffering greater damage occasional wooded areas with sporadic triwith a total two county path length of around path length of a path length of a path length of a path length l	ver mainly open fields until entering the town, with several power poles down. The walls and the roof (DI: FR12 DOD: et (DI: TH DOD: 4). The tornado exited ree damage noted until finally lifting from the field of the control of the	the town of Cloverda The greatest dam The greatest dam The greatest dam The greatest dam The greatest dam The town and continue The greatest dam The greatest dam The greatest dam The greatest dam	ale. Extensive tree age occurred to a ce lost one of its was ad northeast for second Cloverdale. Max	damage as well as minor to moderate church and a brick home. Both alls (DI:FR12, DOD2) with adjacent everal more miles over open fields and simum winds are estimated at 130 mph  Thunderstorm Wind (EG 55 kt) Source: Emergency Manager  Thunderstorm Wind (MG 52 kt) Source: ASOS
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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details			
A 62 mph wind gust was recorded by a mesonet station.							
ALLEN COUNTY 0.9 SW LIMA [40.74, -84.11	]						
	11/17/13 18:00 EST		0	Thunderstorm Wind (MG 55 kt)			
	11/17/13 18:01 EST		0	Source: Mesonet			

A mesonet station recorded a 63 mph wind gust.

Deep low pressure moved across the northern Great Lakes, with a strong cold front trailing well south into Arkansas. A 50 to 60 knot low level jet aided in advecting in dewpoints greater than 60 degrees. 0-1km storm relative helicity values of 400 to 600 m2/s2 setup the perfect environment for individual thunderstorms to rapidly rotate. Numerous circulations were noted during the event, some significant, which produced swaths of wind damage as well as several weak to strong tornadoes. Given forward speed of 60 mph or more, the convection quickly translated across northwestern Ohio over a few hour period.

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